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Final

Meeting Minutes Transmittal/Approval
Unit Manager's Meeting: 300-FF-5 Operable Unit
450 Hills, Richland, Washington
June 25, 1992

FROM/APPROVAL:

Robert J. McLeod
Bob McLeod, 300-FF-5 Unit Manager, RL (A5-19)Date 7-30-92

APPROVAL:

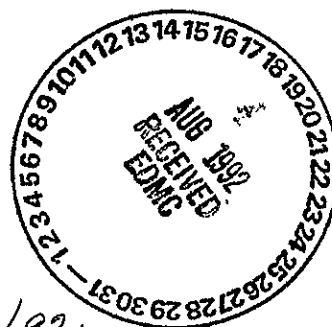
Dave Einar for
Dave Einar, 300-FF-5 Unit Manager, EPA (B5-01)Date 7-30-92

APPROVAL:

Charles S. Olive for DG.
Dib Goswami, 300-FF-5 Unit Manager, WA Department of EcologyDate 7/30/92

Meeting Minutes are attached. Minutes are comprised of the following:

- Attachment #1 - Meeting Summary/Summary of Commitments and Agreements
- Attachment #2 - Agenda For 300-FF-5 Meeting
- Attachment #3 - Attendance List for 300-FF-5
- Attachment #4 - Action Items Status List
- Attachment #5 - 300-FF-5 Work Progress
- Attachment #6 - Remedial Investigation Summary Schedule
- Attachment #7 - Approved Document Change Control Form 300-FF-5-07
- Attachment #8 - River Stage in the 300 Area
- Attachment #9 - Waste Control Plan, approved June 25, 1992
- Attachment #10 - Approved Document Change Control Form 300-FF-5-15
- Attachment #11 - Approved Document Change Control Form 300-FF-5-14
- Attachment #12 - Approved Document Change Control Form 300-FF-5-17
- Attachment #13 - 300-FF-5 Surface Geophysics Status



PREPARED BY:

Suzanne Clarke
Suzanne Clarke, Kay Kimmel, GSSC (A4-35)Date 7/30/92

CONCURRENCE BY:

L.C. Hulstrom
L. Hulstrom, WHC FF-5 RI Coordinator (H4-55)Date 7/31/92

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Attachment #1

Meeting Summary

**Unit Manager's Meeting: 300-FF-5 Operable Unit
June 25, 1992**

1. SIGNING OF THE May 300-FF-5 MEETING MINUTES:

Minutes were reviewed and approved with no changes.

2. ACTION ITEM UPDATE (See Attachment #4):

All previous action items have been closed.

3. NEW ACTION ITEMS (INITIATED June 25, 1992):

No new Action Items were added at this meeting.

4. STATUS AND SCHEDULE OF TASKS:

- George Henckel (WHC) presented the monthly update on task status for the 300-FF-5 Operable Unit (for details see attachments #5 through #8).

5. INFORMATION ITEMS:

- A Waste Control Plan for 300-FF-5 groundwater well installation and sediment sampling waste was signed (see Attachment #9).
- Approved Document Change Control Forms 300-FF-5-15, -14 and -17 were signed at this meeting. See Attachments #10, #11 and #12.
- Joe Kunk presented the 300-FF-5 Surface Geophysics Status (see Attachment #13).

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300FF-5 and 300-FF-1 Operable Unit Manager's Meeting
Official Attendance Record
June 25, 1992

PRINTED NAME	SIGNATURE	ORGANIZATION	O.U. ROLE	TELEPHONE
Suzanne E. Clarke	Suzanne Clarke	SWEC	GSSC for DEPL	509-372-0630
RG McLeod	RG McLeod	DE	UM	509-372-0096
Joseph Kunk	Joseph Kunk	WHC	Geophys. SCS	509-376-4024
Jack Fasset	J.W. Fasset	WHC	Geophysics	509-376-4224
RA Carlson	RA Carlson	WHC	300 Area	509-376-9027
MA Frank	MA Frank	WHC	300-FF-5 Asst	509-376-2731
H.D. Downey	H.D. Downey	WHC	ER Program Offr	509-376-5539
RICH MULLEN	Rich Mullen	PARAMETRIX	Ecology Support	206-455-2550
Jon Sprocher	Jon Sprocher	Brown & Caldwell	Ecology Support	(509) 244-7005
George C Henckel	George C Henckel	WHC	Coordinator	(509) 376-9994
B.E. Innis	B.E. Innis	WHC	300 FFS asst	7690
D. Goswami	D. Goswami	Ecology	RI Coordinator	509-376-3043
CHUCK CRINE	Chuck Crine	Ecology	Unit Mgr	509/546-4301
Brian Frost	Brian Frost	USGS	Geology Support	206-458-7556
HA PARKER	HA Parker	WHC	EPA Support	206-593-6510
LISA CHETNIK TREICHEL	Lisa Chetnik Treichel	DOE-HQ/EM-442	EScont	301-903-8177
KAY KIMMEL	Kay Kimmel	SWEC	Program Mgr	509-372-0610
R.D. BELDEN	Ron Belden	WHC	GSSC	509-372-1226
Dave Einan	Dave Einan	EPA	300-FF-1 Asst. Coord.	509-376-3883
Andree De Angeles	Andree De Angeles	PRC	Unit Mgr	206-624-2692
KR Simpson	KR Simpson	WHC	EPA Support	509-376-1097
			Proj. Sci	

Attachment #3

UNIT MANAGER'S MEETING AGENDA

300-FF-5 OU

June 25, 1992

10:45 am - 12:00 pm

450 Hills Room 47

Introduction:

Status:

Action Items

Remedial Investigation

Schedule

Issues:

Other Topics:

Status of seismic and GPR data reduction (J.R. Kunk)

Agreements and Commitments

Presenter - George Henckel

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Attachment #4

Action Item Status List

**Unit Manager's Meeting: 300-FF-5 Operable Unit
June 25, 1992**

No action items.

9 2 1 2 6 5 4 1 4 0 9

Attachment #5

300-FF-5 Work Progress As of June 25, 1992

Page 1 of 4

Well Drilling

Geologic Characterization Borehole

Due to excessive loss of drilling mud into the surrounding aquifer and the potential for adversely affecting the nearby monitoring wells, Change Form 300-FF-5-07 (attached) was signed on June 3, 1992 to defer this activity to the Phase 2 RI, when the need for this activity will be reassessed.

Pump Test Wells

Analysis of pump test data is complete, the results are being incorporated into the report "Hydrogeologic Summary for the 300 Area", being compiled by K.R. Simpson, K.A. Lindsey, G.G. Kelty, and L.C. Swanson.

Existing Well Maintenance

Remediation work is complete on 13 wells (1-1, 1-2, 2-1, 3-9, 3-12, 4-1, 4-7, 4-9, 6-1, 8-1, 8-2, 8-3, and 8-4). Remediation work has begun on 6 additional wells 399-5-1, 3-11, 4-10, 2-2, 1-6, and 699-S30-E15A, work should be complete on these additional 6 wells by the end of July, 1992.

Task 1--Source Investigation (Conducted in Source Operable Units)

Task 2--Geologic Investigation
Task 2a - Geophysical Surveys

Work is continuing to reduce data for a draft summary report due for WHC review by June 30. Mr. J.R. Kunk will present a status report on this activity at this meeting.

Task 2b - 300-FF-5 Wide Geological Characterization

Work continues to utilize the stratigraphic information gained from the new wells drilled to update the geologic interpretation of the 300 Area. A draft report summarizing this information is being developed by WHC Geosciences.

Task 3--Soil Investigation
Surface Radiation Survey - Task completed.

Soil Sampling and Analysis

Seventeen chemical data SDG's or Case Numbers were selected for validation from 300-FF-5, 10 of those SDG's are being validated as part of 300-FF-1, the remaining 7 are being validated by IT Corporation. The radiological data packages for corresponding samples will be validated as the data is received.

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A Waste Control Plan (required by EII 4.3) has been completed to address all of the 300-FF-5 Investigation Derived Waste drums, and will be presented for signature at this meeting.

Task 4--Groundwater Investigation

Task 4a - Hydrostratigraphy

Task 4b - Contaminant Distribution in Soil and Groundwater

EDMC has received most of the chemical analysis data packages from the first round of groundwater sampling. Exclusive of the coliform analyses, data from approximately 36 samples will be validated to meet the 20% validation requirement. Validation of selected data packages will begin as soon as IT has completed validation of the soils data for 300-FF-5. Verification of the chemical data should be completed by the first week of July. As yet little rad. data has been received. The second round of groundwater sampling has been completed. Approximately 4 wells out of 62 were not sampled due to pump problems or physical access problems.

Task 4c - Hydraulic Properties

Two transducers remain to be installed to complete the network for the 300-FF-5 OU. These installations will be accomplished after well remediation work is completed on wells 2-2 and 2-5, which should be completed by the end of July.

On June 23, 1992 a meeting was held to discuss the status of the Tracer Test described in the 300-FF-5 Work Plan. Representatives from EPA, WHC, Ecology, USGS, and DOE attended the meeting to discuss the need for a tracer test at this phase of the RI. The group decided that at this point in the RI it is not clear that a tracer test would be useful. Therefore the tests will be postponed until phase 2 RI. At that time more groundwater data from the period after the Process Trench ERA was completed and the flow rates to the trenches had been significantly reduced would be available for review to reassess the need for the tests. For further detail see Change Form 300-FF-5-15 which will be circulated at this meeting.

Task 4d - Aquifer Intercommunication - Well 399-1-16D

Change Form 300-FF-5-14 has been revised to include the investigation activities to be carried out at well 16C that were discussed at the May UMM, and will be presented at this meeting for signature. The packer test to determine the integrity of the casing joints at well 16C is scheduled to begin in early July.

Task 4e - Groundwater Modeling - Modeling efforts continue on schedule.

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Task 5--Surface-Water and Sediment Investigation

Task 5a - Relative Data Compilation

The report "Columbia River Monitoring Data Compilation", WHC-SD-EN-DP-024, released in mid February, will be included in the project files for use during the data evaluation phase.

Task 5b - Riverbank Springs

The river stage continues to be high, preventing spring sampling. Monitoring of SWS-1 will continue and sampling will occur when a low period can be predicted (likely in August or September). An update on the river stage level is attached. An update on the plans for the fall sampling will be provided at the July UMM.

Task 5c - Near Shore River Water and Sediment

Approximately 40 near shore river water samples (defined in Table 6 of the SAP) will be taken during the riverbank spring sampling, and submitted for analysis. This work can not be accomplished until the spring sampling begins in order to provide the correlation between the near shore river water and the springs.

Task 5d - Transect River Water

Coordination with the L-045 Project for the Process Sewer effluent treatment facility will continue. Assessment of the data obtained from this work will define further characterization activities. A copy of a final report on the results of characterization activities has been received and PNL has been requested to compare this against the workscope identified in the workplan.

Task 5e - River Stage

A technical review meeting to discuss the issue of the planned second river stage monitoring station was held on June 3, 1992 representatives from WHC, DOE, PNL, EPA and Ecology attended. It was determined that current and anticipated modeling capabilities would not have the resolution required to distinguish the changes in gradient over the length of river within the Operable Unit. Therefore the second river stage monitoring station requirement in the Work Plan will be removed. A change form will be distributed during this meeting.

Task 5--Surface-Water and Sediment Investigation

Task 5f - Boundary Conditions Along the Columbia River

Scheduled for FY 1992, if required. Available data is being reviewed.

Task 5g - Numerical Algorithms for Groundwater to Surface Water
Dispersion

Scheduled for FY 1992, if required. Available data is being reviewed.

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Task 6--Air Investigation

(Conducted in Source Operable Units and during well drilling activities.)

Task 7--Biota Investigations

Riparian Mammals and Plants - Mammal sampling will begin approximately mid-July, focusing mainly on sampling of Voles rather than the Cottontail rabbits. Validation will be performed on data from 40 of the 200 plant samples taken (20 from two different data packages as discussed in May UMM).

Aquatic Biota - Macrophyte and another round of periphytons sampling is scheduled to begin June 26, 1992.

Task 8--Data Evaluation

Performed with data available from the RI when gathered, and supplemented as new information becomes available.

Task 9--Baseline Risk Assessment

This task should begin soon utilizing available data. The site wide methodology being developed as part of Milestone M-29-00 will be utilized as soon as it is available. Development of the 300-FF-5 risk assessment has begun in conjunction with the risk assessment for the 300-FF-1 OU.

Task 10--Preliminary Site Characterization Summary Report

Task 10a - Draft Report
Task 10b - Final Report

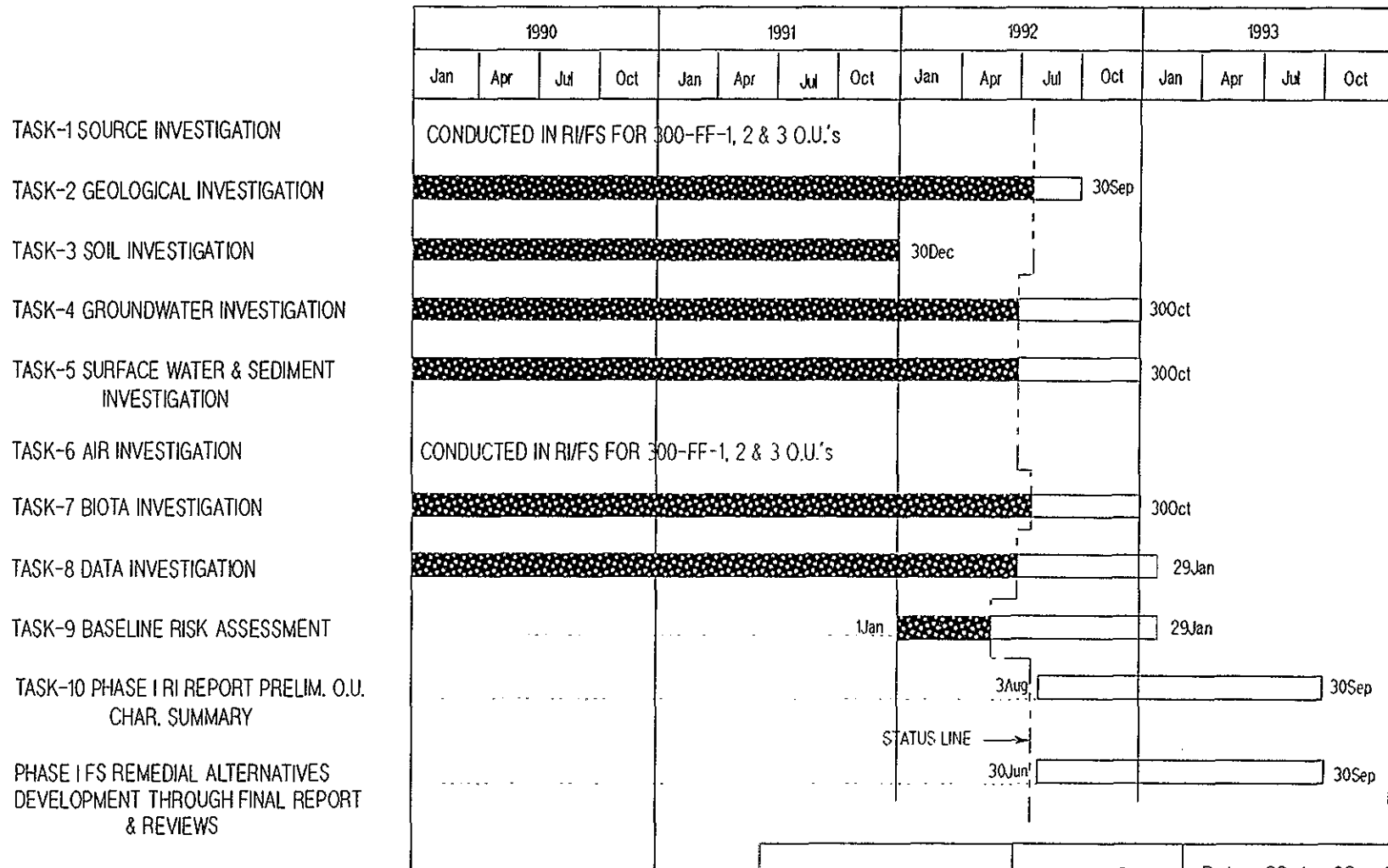
Phase 1 Feasibility Study - Remedial Alternatives Development

Efforts will be initiated in July, 1992 to begin this task with available data.

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300-FF-5 OPERABLE UNIT REMEDIAL INVESTIGATION SUMMARY SCHEDULE

Attachment #6



Project:	LH300RIS	Date: 23 Jun 92 07:54
300-FF-5 OPERABLE UNIT		
Page: 1 of 1	Drawn by: Steve J. Sakey	6-3092

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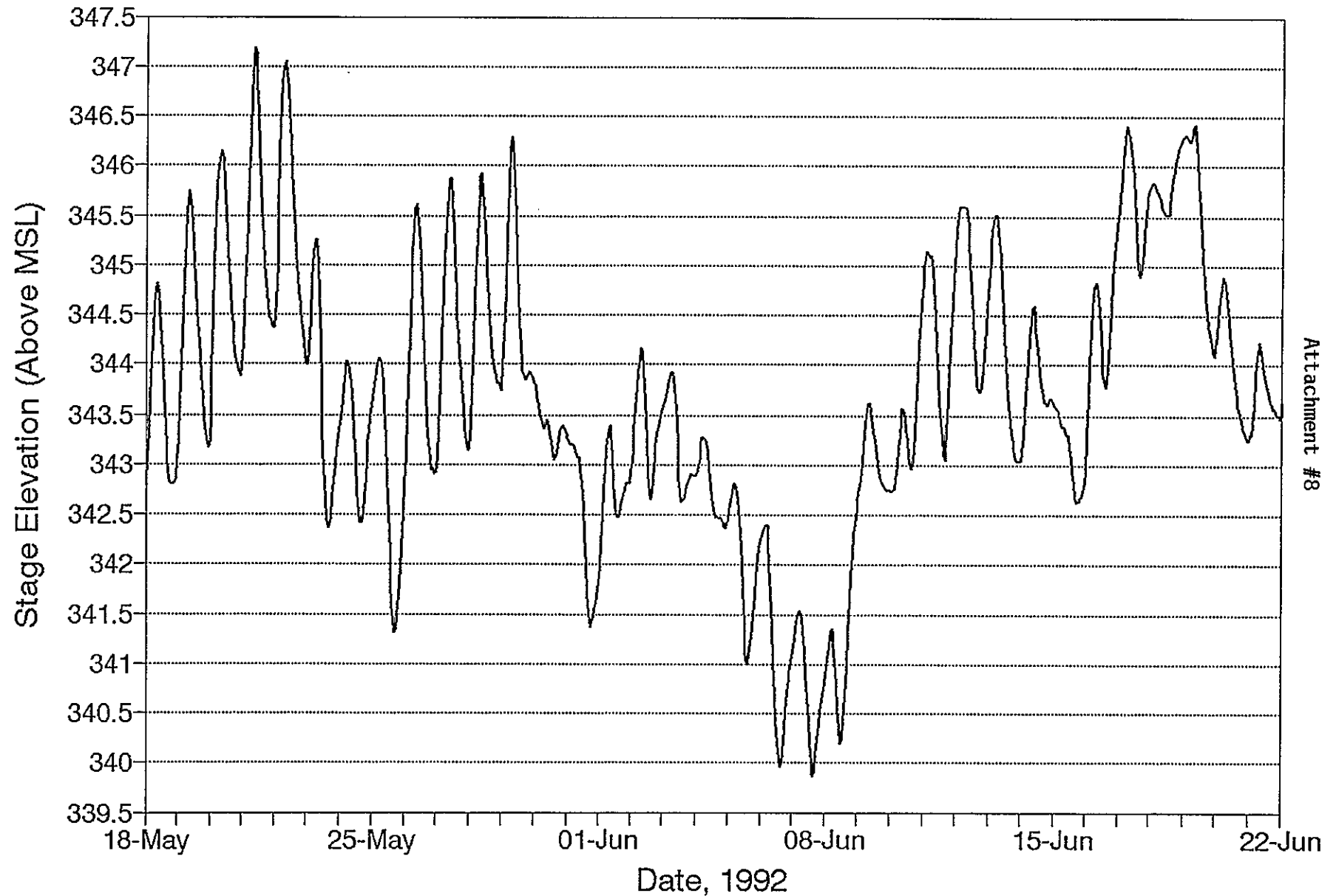
Change Number 300-FF-5-07	APPROVED DOCUMENT CHANGE CONTROL FORM Do not use blue ink. Type or print in black.	Date 9/18/91 (Revised 5/27/92)				
Document Number & Title DOE/RL 89-14, "Remedial Investigation/ Feasibility Study Work Plan for the 300-FF-5 Operable Unit, Hanford Site, Richland, Washington		Date Document Last Issued June, 1990				
Originator <i>LC Hulstrom 4/3/92</i> L. C. Hulstrom, 300-FF-5 RI Coordinator		Phone (509) 376-4034				
Description of Change Section 5.3.2.2 of the work plan describes the installation of two boreholes for geologic characterization purposes. Based on the core recovery that was achieved during the new groundwater well installations and the difficulties encountered when attempting to use mud rotary drilling techniques for the drilling of the first geologic characterization borehole it is proposed that attempts to install any geologic characterization boreholes be deferred until the Phase 2 RI, at which time the necessity of these boreholes can be re-evaluated. Note: Include affected page number Section 5.3.2.2 (WP-150), Section 1.1 (SAP/FSP-1)						
Justification and Impact of Change Present core recovery and lithologic information from newly constructed groundwater well installations is better than previously anticipated. Cores retrieved during well construction have been used for physical property testing and sufficient information is presently available from which engineering decisions for RI/FS needs can be made. Deferral of this work scope to the Phase 2 RI will allow for the re-evaluation of the need for these boreholes at a later time.						
<table border="0"> <tr> <td data-bbox="110 1518 695 1620"> R. G. McLeod <i>Robert G. McLeod</i> DOE Unit Manager </td> <td data-bbox="751 1539 1076 1620"> Date <u>6-3-92</u> </td> </tr> <tr> <td data-bbox="110 1702 695 1804"> D. R. Einar <i>David R. Einar</i> Lead Regulatory Unit Manager </td> <td data-bbox="751 1723 1076 1804"> Date <u>3 Jun 92</u> </td> </tr> </table> <p>Per Action Plan for Implementation of the Hanford Consent Order and Compliance Agreement Section 9.3</p>			R. G. McLeod <i>Robert G. McLeod</i> DOE Unit Manager	Date <u>6-3-92</u>	D. R. Einar <i>David R. Einar</i> Lead Regulatory Unit Manager	Date <u>3 Jun 92</u>
R. G. McLeod <i>Robert G. McLeod</i> DOE Unit Manager	Date <u>6-3-92</u>					
D. R. Einar <i>David R. Einar</i> Lead Regulatory Unit Manager	Date <u>3 Jun 92</u>					

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River Stage in the 300 Area

SWS - 1



WASTE CONTROL PLAN

Page 1 of 4Work Scope Description 300-FF-5 Groundwater well installation and sediment sampling wasteList constituents of concern See attachment #1Site Description 300-FF-5 Operable Unit, 300 area and vicinity, Hanford Nuclear reservation, WashingtonReference DOE/RL 89-14 Rev 0 Date Approved June 1990Preparer/ L.C. Hulstrom/ Date _____
Project /RI Coordinator _____ Print/Sign Name _____

Safety Class

3

Impact Level

3

Field Team Leader /
Cognizant Engineer B.W. Volk IDW Coordinator G.G. HopkinsPlanned Drilling Start and Finish Dates: From 5/2/91 To 12/31/91Waste Storage Facility ID number(s) NA

Field Screening Methods

Method	Frequency	Reference	Detection Range	Analyst
GM	AM/PM per RWP	WHC-CM-4-12	background-100,000CPM	HPT
pH	lithology changes	NA	1-14	Geologist
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____

Laboratory Methods (constituents of concern)

Method	Frequency	Reference	Minimum Detection limits	Contract Lab
See attached table	20' intervals after ground- water is encountered	See attached table	See attached table	WESTON
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____

APPROVALS (Print/Sign Name and Date)

for
L.C. Hulstrom/ 6/25/92
 Project/RI Coordinator

G.G. Hopkins/
 IDW Coordinator

NA

Safety Function (if required)

B.W. Volk/
 Field Team Leader/Cognizant Engineer

Quality Assurance (if required)

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WASTE CONTROL PLAN

Page 2 of 4

Drill site coordinate location 300-FF-5 is a groundwater operable unit, none of the monitoring wells (1A,B,C, 3A, 4A,B,C, 5A,B,C, 6A,B, 7A,B,C, 8A, 1-10B, 1-13B, 1-14B) were drilled within waste site boundaries, attachment #2 is a map showing the well locations.

Waste container storage area(s) coordinate location(s) See attachment #2 which includes waste container storage locations.

Requirements for soil pile sampling (if any) NONE REQUIRED

Nonregulated material disposal location(s) Paper, plastics etc. will be disposed of at the Central Landfill. Nonregulated soils/slurries will be disposed of at the various well sites where they were generated, at a distance from the well head which will prevent any liquids from migrating via the well annulus back into the unconfined aquifer. Nonregulated waste drums from wells 6A & 6B will be disposed of in the vicinity of the east centralized waste container storage area, where they are presently being stored.

Sketch of work site

See attachment #2

APPROVALS (Print/Sign Name and Date)

D.R. Einan/ David R. Einan 25 Jun 92
Lead Regulatory Agency Representative

R.G. Mcleod/ Robert G. McLeod Jun-25-92
DOE-RL

by L.C. Hulstrom/ L.C. Hulstrom 6/25/92
Project/RI Coordinator

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LABORATORY METHODS (CONTAMINANTS OF CONCERN)

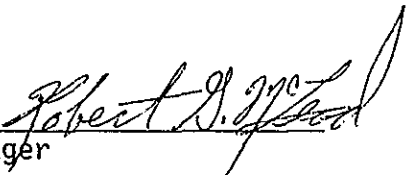
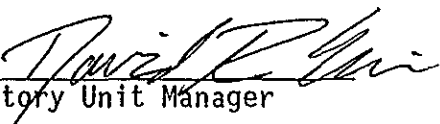
ACTUAL METHOD DETECTION LIMITS ARE MATRIX DEPENDENT AND MAY VARY, ACTUAL DETECTION LIMITS FOR SAMPLES MAY BE HIGHER DEPENDING ON THE MATRIX INVOLVED.

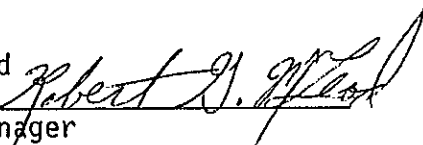

ANALYTE	REFERENCE	CRDL/CRQL-SOIL	WATER
METALS	EPA CLP PROTOCOL	mg/kg	ug/l
ALUMINUM		20	200
ANTIMONY		6	60
BERYLLIUM		0.5	5
CADMIUM		0.5	5
CHROMIUM		1	10
COPPER		2.5	25
IRON		10	100
LEAD		0.3	3
MANGANESE		1.5	15
MERCURY		0.02	0.2
NICKEL		4	40
SILVER		1	10
ZINC		2	20
ORGANICS	EPA CLP PROTOCOL	ug/kg	ug/l
AROCILOR 1248		33.0	1.0
1,2-DICHLOROETHENE		10	10
METHYLENE CHLORIDE		10	10
TRICHLOROETHENE		10	10
TETRACHLOROETHENE		10	10
RADIOLOGICAL	CLP LAB SOP	pCi/g	pCi/l
GROSS ALPHA		1	3
GROSS BETA		4	4
Co-60		0.1	25
Cs-137		0.1	15
Sr-90		1	5
U-235		1	3
U-238		1	3
WET CHEMISTRY	CLP LAB SOP	mg/kg	ug/l
AMMONIA (AS NITROGEN)		NA	30
FLUORIDE		1	100
NITRATE		2	100
NITRITE		1	4

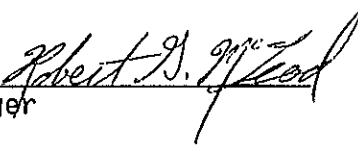

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The map illustrates the layout of the Hanford Site, specifically the 300 Area and 3000 Area. The 300 Area is divided into three main sections: 300-FF-1, 300-FF-2, and 300-FF-3. 300-FF-2 contains a centralized waste container storage area. Various monitoring points are marked throughout the site, including S22-E9A (4A), S22-E9B (4B), S22-E9C (4C), S27-E9A (7A), S27-E9B (7B), S27-E9C (7C), S28-E12 (8A), S10-E14 (3A), S29-E16A (1A), S29-E16B (1B), and S29-E16C (1C). The 3000 Area includes the George Washington Way Extension. The Columbia River is shown to the east, with Johnson Island (Island 17) and Island 18. The Hanford Site Boundary is indicated by a dashed line.

o 1-12 Well Location and Number (Wells Prefixed by 399-, Except Those Beginning with S are Prefixed with 699-)

Change Number 300-FF-5-15	APPROVED DOCUMENT CHANGE CONTROL FORM Do not use blue ink. Type or print in black.	Date 6/23/92
Document Number & Title DOE/RL 89-14, "Remedial Investigation/ Feasibility Study Work Plan for the 300-FF-5 Operable Unit, Hanford Site, Richland, Washington		Date Document Last Issued June, 1990
Originator L. C. Hulstrom, 300-FF-5 RI Coordinator		Phone (509) 376-4034
Description of Change Section 5.3.4.3 (pg. WP-175) of the Work Plan and section 1.3.2 (pg. SAP/FSP-21) of the Sampling and Analysis Plan describe the performance of three tracer tests to be Performed in the Phase 1 RI. The tracer tests will be deferred to the Phase 2 RI, if at that time they are deemed necessary.		
Justification and Impact of Change The transducer network in place in the 300 area (34 units) will supply sufficient data to meet the Phase 1 RI modelling needs. Effects of the river stage, which have fluctuated greatly within the time necessary to run a single test, will have a great impact on the interpretation of the data gathered. The results of the tests would be used to evaluate the potential for future transport of uranium to the Columbia river; this potential has already been reduced by a large reduction of discharge to the process trenches, and the removal of contaminated sediments from the bottom of the trenches. Historical data (Dilution of 300 Area Uranium Wastes Entering the Columbia River, 1957) indicates that soluble uranium is not retained in the 300 Area sediments. Current groundwater analysis data indicates decreasing uranium concentrations in the wells nearest to the process trenches. Future groundwater data will be evaluated to confirm this trend, which may obviate the need for the tracer test.		
<div style="display: flex; justify-content: space-between;"> <div> R. G. McLeod  DOE Unit Manager </div> <div> <u>6-25-92</u> Date </div> </div> <div style="display: flex; justify-content: space-between; margin-top: 20px;"> <div> D. R. Einar  Lead Regulatory Unit Manager </div> <div> <u>25 Jun 92</u> Date </div> </div>		
Per Action Plan for Implementation of the Hanford Consent Order and Compliance Agreement Section 9.3		

Change Number 300-FF-5-14	APPROVED DOCUMENT CHANGE CONTROL FORM Do not use blue ink. Type or print in black.	Date 06/23/92
Document Number & Title DOE/RL 89-14, "Remedial Investigation/ Feasibility Study Work Plan for the 300-FF-5 Operable Unit, Hanford Site, Richland, Washington		Date Document Last Issued June, 1990
Originator L. C. Hulstrom, 300-FF-5 RI Coordinator		Phone (509) 376-4034
Description of Change Section 5.3.4.4 Task 4d (pg. WP-93, WP-176)-Aquifer Intercommunication, describes a process for restoring hydraulic isolation between the unconfined and confined aquifers at 399-1-16D. These activities at well 16D will be deferred to the Phase 2 RI, when it can be determined if they will be necessary.		
Justification and Impact of Change Evaluation of recent VOA sampling results by WHC and PNL RCRA and CERCLA staff indicates that well 16D is probably not the cause of the drawdown problem found at 399-1-16C. Anomalous head readings and groundwater analysis results from well 16C support the hypothesis that the hydraulic intercommunication may be occurring at well 16C rather than at well 16D. DOE and WHC will conduct a seal test to detect for potential leakage at casing joints in well 16C. The test results will be evaluated and presented to the regulators. If the results are inconclusive, further discussions with the regulators will be scheduled to develop a new strategy to address the situation at 16C. The seal material used around the casing is another potential area for leakage at 16C. If the results conclusively identify leakage, a remedial plan will be developed and submitted to the regulators for review. If no evidence of a leak is identified at well 16C, the potential for a leak at well 16D will be reevaluated. The proposed change does not have a major impact on the remedial investigation program. Quarterly sampling will continue at the site to enhance the data base on the levels of VOAs that are present.		
<div style="display: flex; justify-content: space-between; align-items: flex-end;"> <div style="width: 40%;"> R. G. McLeod  DOE Unit Manager </div> <div style="width: 40%; text-align: center;"> <u>June 25, 1992</u> Date </div> </div> <div style="display: flex; justify-content: space-between; align-items: flex-end; margin-top: 20px;"> <div style="width: 40%;"> D. R. Einar  Lead Regulatory Unit Manager </div> <div style="width: 40%; text-align: center;"> <u>25 Jun 92</u> Date </div> </div>		
Per Action Plan for Implementation of the Hanford Consent Order and Compliance Agreement Section 9.3		

Change Number 300-FF-5-17	APPROVED DOCUMENT CHANGE CONTROL FORM Do not use blue ink. Type or print in black.	Date 06/23/92
Document Number & Title DOE/RL 89-14, "Remedial Investigation/ Feasibility Study Work Plan for the 300-FF-5 Operable Unit, Hanford Site, Richland, Washington		Date Document Last Issued June, 1990
Originator L. C. Hulstrom, 300-FF-5 RI Coordinator		Phone (509) 376-4034
Description of Change Section 5.3.4.3 (pg. WP-173, SAP/FSP-15) discusses the need for a second river stage monitoring station within the Operable Unit, designated SWS-2. Due to the current and anticipated modeling limitations the requirement for this second monitoring station will be removed from the Work Plan.		
Justification and Impact of Change It is the change in river gradient that alters aquifer hydrologic topography and might affect the validity of the groundwater model. Three stations now monitor river stage, 2 in the 100 Areas and SWS-1 in the 300 Area. The average river gradient measured by these stations is 1.1 ft/mile. The change in gradient from highest to lowest stage is 4% or .05 ft/mile. The change in gradient from the proposed location of SWS-2 to SWS-1 would be no more than .02 ft even with the influence of the McNary pool included in the calculation. The current 300-FF-5 groundwater model does not have the resolution required to distinguish this small of a change in gradient. There will be no significant impact to the validity of the groundwater model or the RI/FS due to this change. Based on existing groundwater level versus river stage data, it appears that the groundwater system is responding to only a single river stage regime. Therefore only a single river stage recorder is needed.		
<div style="display: flex; justify-content: space-between;"> <div> R. G. McLeod  DOE Unit Manager </div> <div> <u>Jun - 25 - 92</u> Date </div> </div> <div style="display: flex; justify-content: space-between; margin-top: 20px;"> <div> D. R. Einarson  Lead Regulatory Unit Manager </div> <div> <u>25 June 92</u> Date </div> </div> <p>Per Action Plan for Implementation of the Hanford Consent Order and Compliance Agreement Section 9.3</p>		

92126341423

300-FF-5 SURFACE GEOPHYSICS STATUS

JOSEPH KUNK

JUNE 25, 1992

9 2 1 2 6 5 4 1 4 2 4

300-FF-5 GEOPHYSICAL SURVEY STATUS

SEISMICS

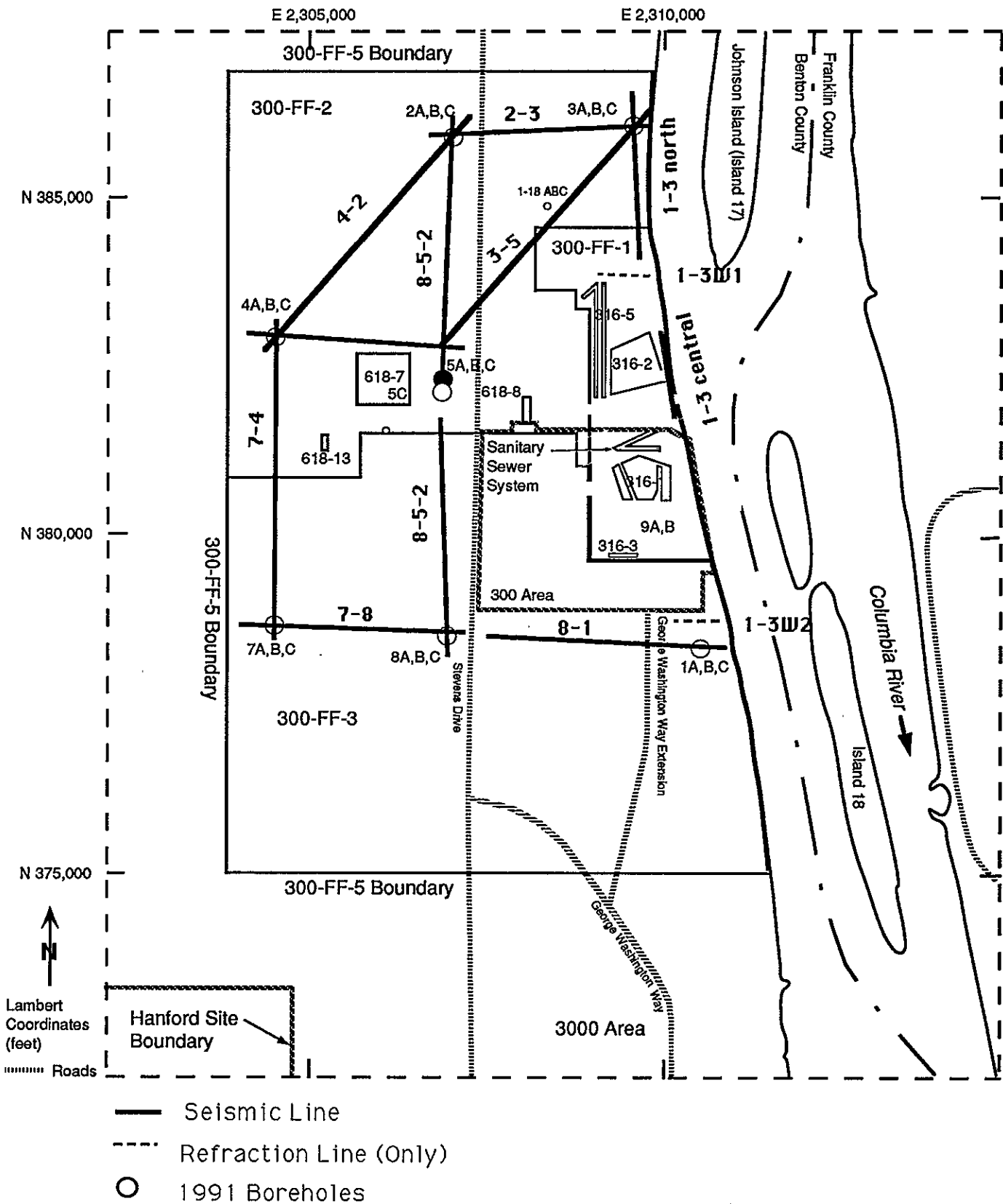
Data Analysis Status

Data Processing Sequence

Seismic Sections

9 2 1 2 6 5 4 1 4 2 5

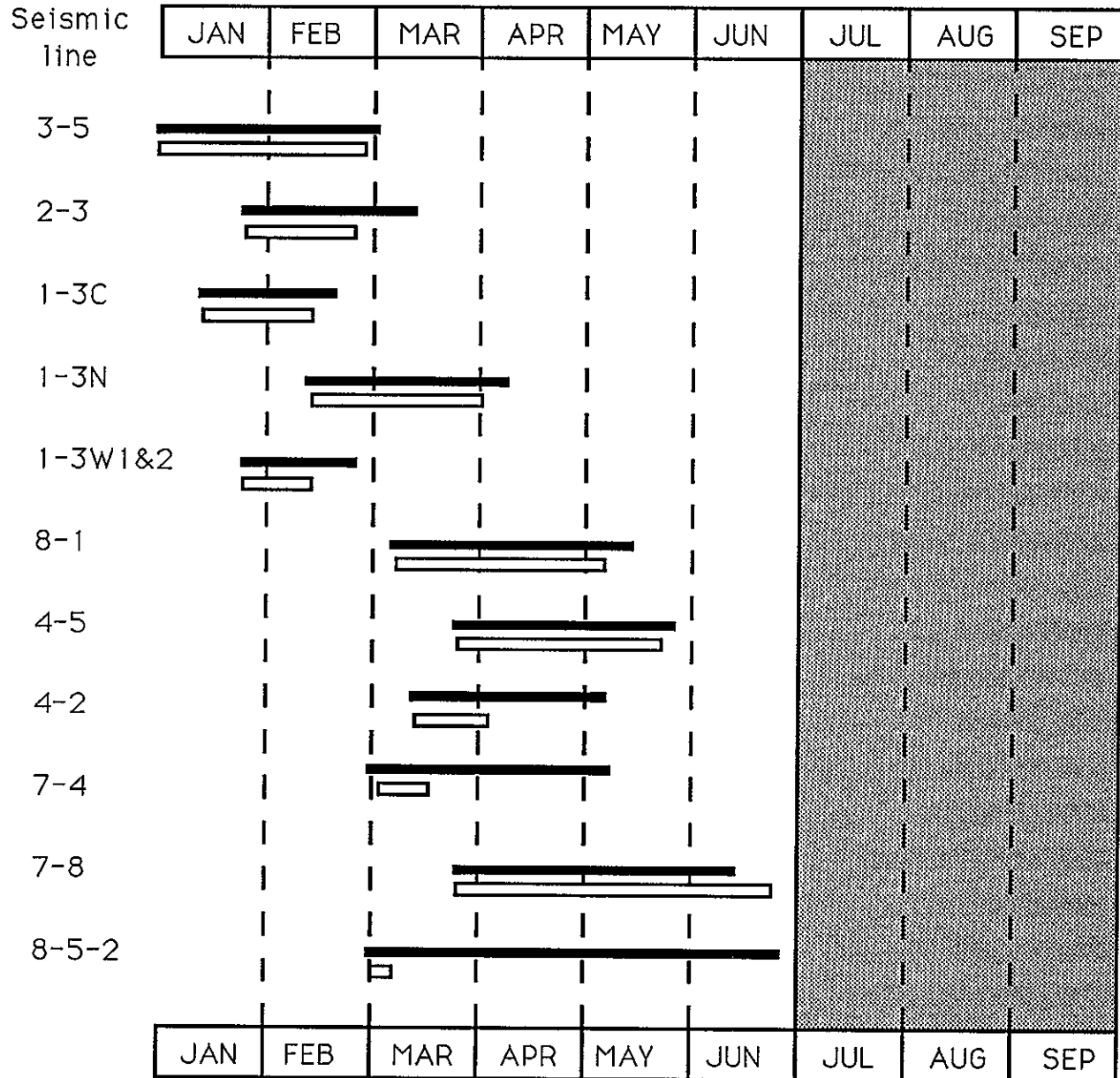
9 2 4 1 4 5 9 2 1 2 6



300-FF-5

SEISMIC PROCESSING STATUS

— PLANNED
 — ACTUAL



9 2 1 2 6 5 4 1 4 2 7

Data Processing Sequence

TYPICAL SEQUENCE

Gain

- spherical Divergence
- automatic gain control (100 millisec)

Recursive Dip Filter

- reject 400 to 1700 ft/sec
- 2 poles

Frequency Filter

- pass 40 Hz to 200 Hz (36db/oct & 18 db/oct respectively)

Velocity Analysis

- methods of approximation
 - refraction information
 - normal moveout evaluations
 - constant velocity stacks
 - velocity semblance

Normal Moveout Correction

- stretch mute at 95 to 97 percent
- 20 millLisec taper

Datum Statics

Common Midpoint Stack

9 2 1 2 3 4 1 4 2 3

Distribution

Unit Manager's Meeting: 300-FF-5 Operable Unit
June 25, 1992

Julie K. Erickson	Chief, DOE-RL, ERD/ERB (A5-19)
Roger D. Freeberg	Chief, Rstr. Br., DOE-RL/ERD (A5-19)
Steven H. Wisness	TPA Proj. Mgr. (A5-15)
Diane Clark	DOE-RL (A5-55)
Eric Goller	DOE-RL (A5-19)
Mike Thompson	DOE-RL (A5-15)
Dib Goswami	WDOE (Kennewick Office)
Lynn Albin	WA Dept. of Health
Ward Staubitz	USGS
Audree DeAngeles	PRC
Richard D. Wojtasek	Program Mgr., WHC (L4-92)
Mel Adams	WHC (H4-55)
Tom Wintczak	WHC (L4-92)
Larry Hulstrom	WHC (H4-55)
Rich Carlson	WHC (H4-55)
L.D. Arnold	WHC (B2-35)
Don Praast	GAO (A1-80)

ADMINISTRATIVE RECORD: 300-FF-5; Care of EDMC, WHC (H4-22)

This list has been updated. Please inform Suzanne E. Clarke (SWEC) of deletions or additions to the distribution list (A4-35).

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